

Subject: Biology SL + HL				
Periods per week	5			
Teacher	Howard Chang			
Textbook/Teaching Materials	<ul style="list-style-type: none"> ● Campbell Biology Concepts and Connections (2022, Pearson) ● Teaching science in elementary and middle school_ a project-based learning approach (2018) ● My IB Website – https://internationalbaccalaureate.force.com/ibportal ● Inthinking (Biology) - https://www.thinkib.net/biology ● https://openstax.org/books/biology-2e/pages/1-introduction ● https://flexbooks.ck12.org/cbook/ck-12-biology-flexbook-2.0/ 			
Formative assessment	<ul style="list-style-type: none"> ● Worksheet、Spelling game、Padlet、Quizelet、google form、Group presentation ● Paper-pencil Quizzes ● Boardworks 			
Midterm Assessments (50%)	Paper and pencil test (Paper 1 and Paper 2)			
Final Assessment (50%)	Paper and pencil test (Paper 1 and Paper 2)			
Week	Dates	Teaching Unit	Assessment	Notes
1	8/30-9/2	4.1 Species, communities and ecosystems 7.1 DNA structure and replication	Worksheet	8/30 School starts
2	9/5-9/9	4.2 Energy flow 7.2 Transcription and gene expression	Group presentation	9/9 Holiday
3	9/12-9/16	4.3 Carbon cycling 7.2 Transcription and gene expression		
4	9/19-9/23	4.4 Climate change 7.3 Translation		
5	9/26-9/30	4.4 Climate change 7.3 Translation	Group presentation	
6	10/3-10/7	5.1 Evidence for evolution 5.2 Natural selection 10.1 Meiosis		
7	10/10-10/14	5.3 Classification of biodiversity 10.2 Inheritance		10/10 Holiday 10/11-13/ First Midterm
8	10/17-10/21	5.4 Cladistics 10.2 Inheritance	Worksheet	
9	10/24-10/28	10.3 Gene pools and speciation		
10	10/31-11/4	10.3 Gene pools and speciation	Worksheet	
11	11/7-11/11	First Summative Assessment	•Paper-pencil Exam (Paper 1 and Paper 2)	

12	11/14-11/18	6.1 Digestion and absorption 11.1 Antibody production and vaccination		
13	11/21-11/25	6.6 Hormones, homeostasis and reproduction 11.2 Movement		
14	11/28-12/2	6.2 The blood system 11.3 The kidney and osmoregulation		11/28 Progress Report Issuance
15	12/5-12/9	6.3 Defence against infectious diseases 11.3 The kidney and osmoregulation	Worksheet	11/21-23 Second Midterm 11/25 Midterm Grade Deadline
16	12/12-12/16	6.4 Gas exchange 11.4 Sexual reproduction		
17	12/19-12/23	6.5 Neurons and synapse 11.4 Sexual reproduction		
18	12/26-12/30	Option A	Worksheet	
19	1/2-1/6	Second Summative Assessment	•Paper-pencil Exam (Paper 1 and Paper 2)	
20	1/9-1/13	Practical Review		
21	1/16-1/19	Practical Review		1/17-19 Final Exam 1/19 Closing Ceremony 1/17 Tern Grade And Comments Deadline